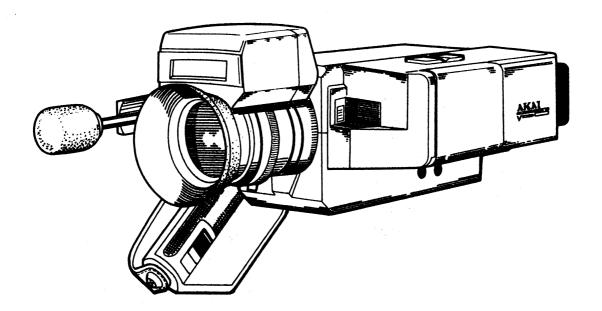
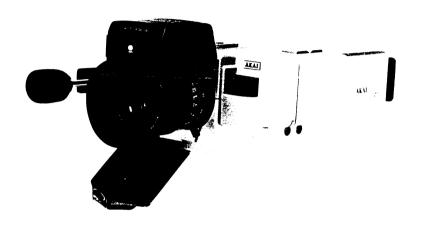
AKAI SERVICE MANUAL



COLOR VIDEO CAMERA (NTSC)

MODEL VC-X1U



COLOR VIDEO CAMERA (NTSC)

MODEL VC-X1U

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SECTION 1

SERVICE MANUAL

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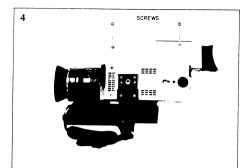
I. SPECIFICATIONS

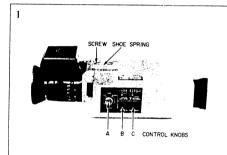
PICKUP TUBE	Single tube, 2'3" vidicon
PICKUP SYSTEM	Uni-carrier Frequency Separation System
SCANNING SYSTEM	2:1 interlaced (525 lines)
SIGNAL SYSTEM	NTSC Color System
HORIZONTAL RESOLUTION	More than 270 lines (center)
VIDEO S/N	More than 46 dB (luminance channel)
VIDEO OUTPUT	1.0 Vp-p, 75 ohms (unbalanced)
SYNCHRONIZATION SYSTEM	Internal Synchronization System (built-in Synchronization Signal Generator)
AUTOMATIC SENSITIVITY ADJUSTMENT RANGE	50 lux to 64,000 lux (without built-in ND filter) 400 lux to 500,000 lux (with built-in ND filter)
COLOR TEMPERATURE AUTO MANUAL	Incandescent lamp or Day light (automatically switchable) Incandescent lamp. Fluorescence lamp and Day light (switchable)
MINIMUM PRACTICAL ILLUMINATION	More than 50 lux (F1.4)
MICROPHONE	Uni-directional electret condenser microphone
AUDIO OUTPUT	-20 dB (low impedance)
AUDIO S/N	More than 40 dB
EXTERNAL MICROPHONE INPUT	-66 dB, 2 kohms, 3.5 mmφ jack
LENS	F1.4, x6 zoom lens (f = 11 mm to 70 mm) with MACRO, Manual/2-speed motor driven Zooming control. Switchable Auto/Manual IRIS control. Filter Diameter = 58 mm (fixed zoom lens)
VIEW FINDER	1.5" Electronic View Finder
REMOTE CONTROL JACK	2.5 mmø
SPECIAL FEATURES	One-touch fade-in and fade-out system Switchable luminance and chrominance (color) signal polarities
OPERATING TEMPERATURE	32°F to 104°F (0°C to 40°C) * In cold temperatures, the auto zoom will move slowly. In such cases, zoom-in/-out manually.
POWER REQUIREMENT	12 VDC
POWER CONSUMPTION	7.6W (at Auto Focus "MANU." position) 11.0W (Maximum Power Consumption)
DIMENSIONS	$8.5(W) \times 5.2(H) \times 13.9(D)$ inches (216 \times 132 \times 352) mm (With lens and eye hood, auto focus unit, hand grip and microphone retracted position)
WEIGHT	5.3 lbs (2.5 kg) (with lens and eye hood, hand grip and microphone)

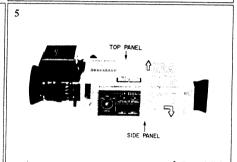
^{*} For improvement purposes, specifications and design are subject to change without notice.

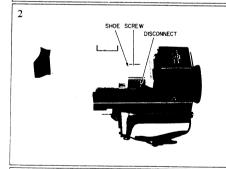
II. DISMANTLING OF UNIT

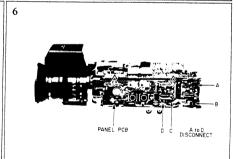
In case of trouble, etc. necessitating dismantling, please dismantle in the order shown in the photographs. Reassemble in reverse order.

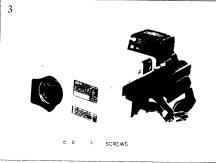








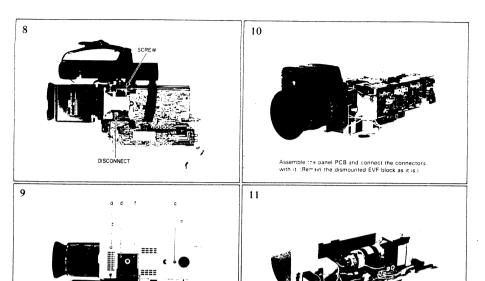




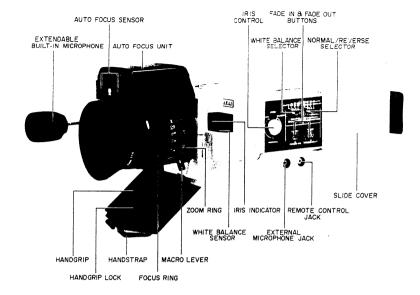


III. CONTROLS

EVF BLOCK



b g • SCREWS



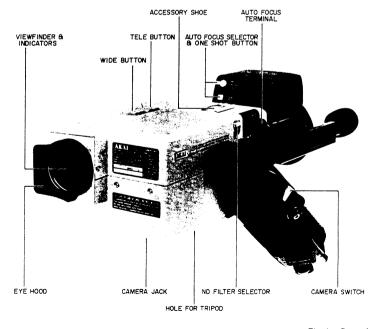


Fig. 1 Controls

IV. PRINCIPAL PARTS LOCATION

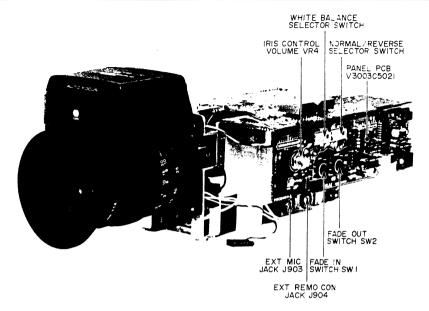


Fig. 2

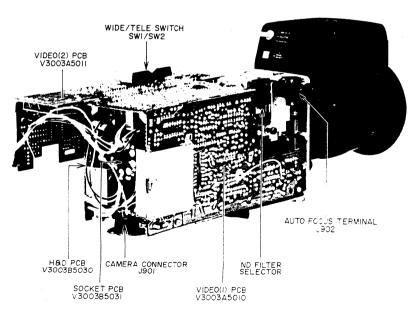


Fig. 3

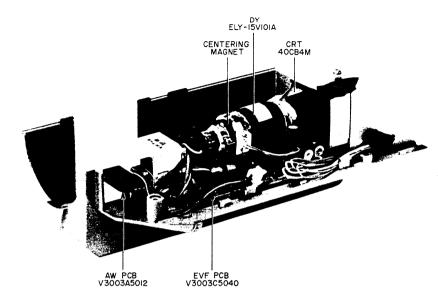


Fig. 4 EVF Block

1. FEATURES OF VC-X1

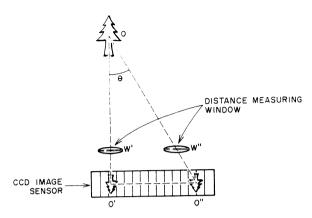


Fig. 5

1-1. Automatic Focus Control

The automatic focus adjusting unit employed on the VC-X1 provides focus adjustment in digital control mode through the use of a solid-state triangulation system (SSTS). Its major advantages are high accuracy, high sensitivity and elimination of unwanted noises.

The distance of the subject is measured in the same manner as in triangulation. As illustrated in Fig. 5, the image of the subject O, passes through the windows W and W" and then is captured as images O' and O" on the CCD image sensor. The signal at O' is read out by means of a clock and subsequently the number of clocks needed to read the signal at O" is determined to calculate the angle O'-O-O" or L θ , which then is used to compute the distance of the subject from the camera. Nore that the longer the distance, the smaller the angle θ , or the shorter the distance, the larger the angle θ .

1-2. Automatic White Balance Control

The adjustment of white balance poses the most difficult problem in shooting with a color camera. To overcome this difficulty, VC-XI employes two photodiodes to measure the color temperature of ambient light so as to permit switching automatically between INDOOR (3000°K) and OUTDOOR (5500°K).

Use of the two-diode system helps to ensure "naturalness" especially in outdoor shooting and simplicity of circuit design.

1-3. Auto Iris Control

The VC-X1 is provided with a VR for backlight control (BLC) to permit shooting against the light. The IRIS control knob is normally set at NORMAL position. This causes AGC in the video circuit to operate in the manner described below:

When shooting a dark scene, the iris is fully opened and then if gain is found still insufficient, the gain is increased electrically by means of AGC. Note that the auto-iris is closed with the power OFF, thereby protecting the vidicon.

1-4. Fade-In/Fade-Out

The VC-X1 permits both fade-in and fade-out through one-touche operation. Particularly, the fade-in operation is performed in "reserved" made, in which the fade-in operation is started as soon as recording is started.

During the Rec. OFF period, the fade-out operation is not accepted.

Further, establishing the STAND-BY mode after fadeout causes a fade-in operation to be performed automatically, thereby making it easier to shoot the next scene.

	Y Signal	Chroma Signal	Picture		
1	Normal	Normal	Normal Picture		
2	Normal	Reverse	Gradation of brightness is reversed		
3	Reverse	Normal	Expression of complementary color		
4	Reverse	Reverse	Same picture as that of color negative film		

Fig. 6

LED	Disappearance	Switching ON/OFF	Lighting
Red	Rec OFF	When VTR is not set completely in REC Mode.	Rec ON
Green		Slow switching: When White Balance is not Normal. Medium-speed switching: When Auto Iris is not Normal. High-speed switching: When Nega-Posi is not Normal.	
Yellow		Drop in battery voltage (10.8V ± 0.15V)	(1) Fade In reserved (2) Fade Out in operation

Fig. 7

1-5. Negative/Positive Reversal

In addition to normal pictures, special pictures may be produced through the three possible signal combinations shown in Fig. 6 below:

The mode "4" in Fig. 6 permits a negative color film to be viewed as positive color on the TV monitor.

1-6. LED Display in the Viewfinder

Three LEDs found within the viewfinder provides a means of displaying the following:

1-7. Built-in ND Filter

Use the large-diameter, high-speed lens can often result in the automatic aperture control not being able to cover all conditions under which the camera is used outdoors. In view of this, VC-X1 incorporates an ND-8 filter with a transmissivity of 12.5% so that shooting can be done even under quite-bright-light conditions.

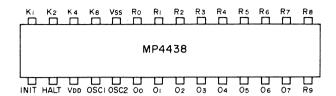
1-8. Power Zooming

The VC-X1 is capable of continuous zooming from TELE to WIDE with zooming speed changeable in two steps: one for slow zooming and the other (further depression of the button) for fast zooming.

1-9. Boom Microphone

A boom microphone with a window screen (and with an additional window screen in case of a strong wind) is able to reduce significantly the sound of wind recorded.

2. EXPLANATION OF CIRCUITRY



Ro, R1, R2, R4: Key Scan Clock

R6 to R8 : LED Lighting Output

R₃ : Rec trigger

R₉ : Quick Fade Out

O₀ to O₄ : AGC Output (5 bits)

OSC₁, OSC₂ : Self-Oscillation HALT : Microcomputer

T : Microcomputer stops at "H". (GND'ed)

INIT : Initialize

Fig. 8

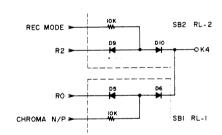


Fig. 9

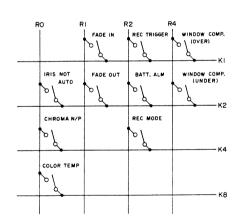


Fig. 10

2-1. Panel P.C Board

The various features of VC-X1 are controlled by the microcomputer MP4438 (IC1).

2-1-1. Diode Matrix Switch

In Fig. 9, when R_0 goes to "positive". D_5 is turned off, permitting the CHROMA N/P pulse to be supplied to K_4 . Similarly, the Rec Mode signal is sent to K_4 only when R_2 is at "positive".

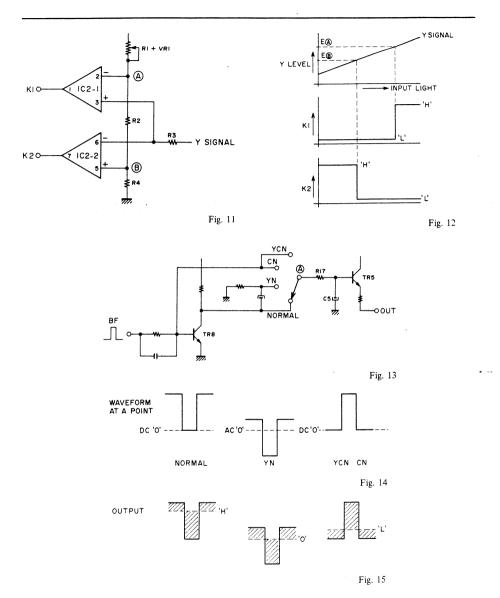
2-1-2. Window Comparator

Fig. 11 shows the comparator circuit used to operate the AGC circuit. If the Y signal level (input to the window comparator) is higher than voltage $E_{(\widehat{A})}$ at point \widehat{A} , IC2-1 output goes to "H" level.

On the other hand, if the Y signal level is lower than voltage $E_{\widehat{B}}$ at point \widehat{B} , then IC-2 output goes to "H" level.

Thus, output goes to "L" if the input signal E_Y is: $E_B < E_Y < E_A$.

The AGC circuit is controlled in such a manner that the output goes to "L".



2-1-3. Chroma Nega/Posi Reversal Circuit

This circuit not only sends information on the position of the NEGA/POSI SW to the microcomputer but also switches BF output between positive and negative.

The waveform of change-over switch output at point A is shown in Fig. 14.

Since the pulse is integrated by R17 and C5, output (at TR5's emitter) goes to "H" with Normal, to

"O" with YN or to "L" with YCN and CN.

This level is read into the microcomputer for display by LED of the position of the NEGA-POSI SW. In addition, the burst flag is also switched by the NEGA-POSI switch. With Normal, it is reversed by TR8 to assume a negative polarity, whereas with Reversal mode, it is output as a pulse of positive polarity without being reversed.

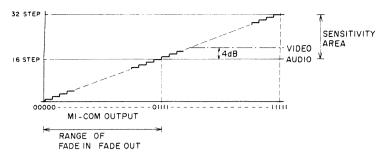


Fig. 16

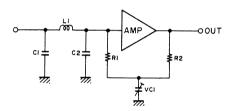


Fig. 17

2-1-4. AGC Output Circuit

Output from the AGC output ports $O_0 - O_4$ of the microcomputer is converted to an analog voltage by the staircase D-A converter circuit.

Further, when the FADE IN or FADE OUT button is depressed, the fade-in or fade-out operation is performed by changing the AGC output voltage as shown in Fig. 16.

TR4 is for discharging C4 to reduce the AGC output to zero for quick fade-out (with fade-in reserved, to start the fade-in operation at the same time that recording is started, it is necessary to start at video out "O").

EF is used for TR6 and TR7 since AGC for the audio circuit requires more current than with the video circuit.

2-2. Pre Amp

Fig. 17 is the block diagram for the pre amp circuit. The amp has a gain of about 55 dB. C1 provides a floating capacity between the lead from the videcon to L1 and the GND. L1 is a resonance coil known as Percival coil. The combined use of this coil and C1 contributes to an about 7 dB improvement in S/N at 4.1 MHz or so. (Note that L1 and C1 make up a 4.1 MHz resonance circuit). VC-X1 is a variable condenser used to correct the frequency characteristic in the low- to mid-ranges.

VR1 and VR2 in the pre amp schematic diagram are intended for adjusting the high-range characteristic.

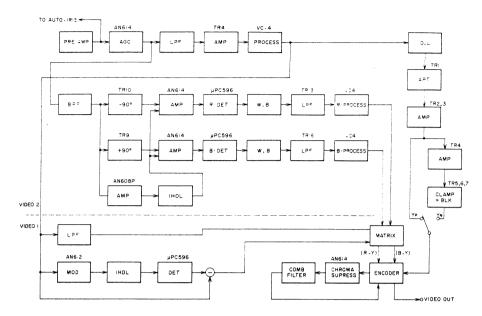


Fig. 18

2-3. Video Amp

The video amp is made up of two P.C Boards: Video (1) and Video (2). Its block diagram is shown in Fig. 18. Output from the pre amp is clamped by TR1 and then supplied to pin 1 to IC1 (AN614).

The IC1 is an AGC circuit and its pin ③ accepts, via TR6 (current mirror circuit), the DC voltage that has been level-controlled by VR15.

(Note that this DC voltage is the result of D-A conversion of the 5-bit digital signal from the Panel P.C Board). The AGC amp output branches into two routes. With one route, the amp output is first passed through TR2 (EF) and then through LPF to have its modulated wave component removed before being applied to the Y-process circuit. With the other route, the AGC amp output is passed through BPF to take out the 3.8 MHz component only, which is then supplied to the CHROMA circuit.

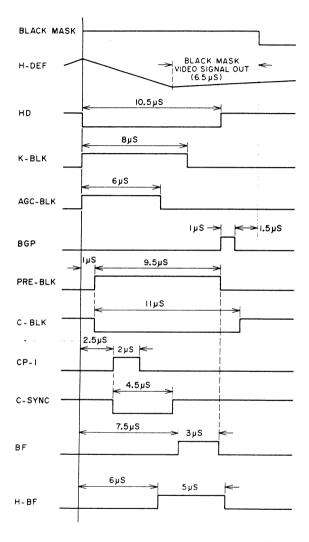


Fig. 19

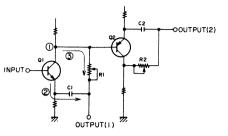


Fig. 20

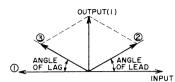


Fig. 21

2-3-1. CHROMA Circuit

1) Color separation circuit

The signal from BPF is phase-shifted ±90° by TR9 and TR10.

As can be seen from Fig. 20, when the reverse of the input signal ① is passed through an integration circuit consisting of R1 and C1, phase lag occurs as illustrated at ③ in Fig. 21. On the other hand, the input signal is passed through the EF circuit and then through a differential circuit consisting of C1 and R1, resulting in the signal phase as illustrated at ②. Thus, the resultant output is as shown in Fig. 21; i.e., the signal that has a phase lead of 90° over the input is obtained. In the similar manner, for output ②, the signal which has a phase lag of 90° with reference to the input is obtained.

When the signals obtained in the manner mentioned above (i.e., those signals whose phase difference from the input signal is ±90°) and the

1H-delayed input signal are fed into the subtraction circuit, or IC5 (AN614). the R and B signals modulted at 3.8 MHz can be obtained.

Each of these signals is detected by the detector and then passed through the white balance circuit to obtain each of outputs R and B by means of a load resistance (see the White Balance section).

The output is subsequently supplied to LPF, the output of which is then fed into IC7 (VC-4), or the process circuit.

2) White balance circuit

With the VC-X1, the white balance circuit is preceded by the detection circuit for 3.8 MHz-modulated waves (R and B) produced in the color separation circuit. (See Fig. 18). Fig. 22 shows the white balance circuit connections.

Color temperature is controlled by selecting the appropriate load resistance for TR1 and TR2 which must be D1'R1', R2', R3' or R4'TR11. For FL and 3000°K (or 5500°K with B-channel),

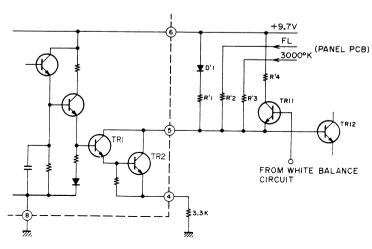


Fig. 22

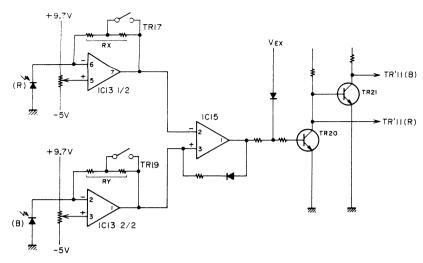


Fig. 23

switching is made by means of the change-over switch on the Panel P.C Board.

Also, when this change-over switch is at "AUTO" position, either 3000°K or 5500°K is selected automatically depending on whether TR11 (R-channel) is turned on or TR11' (B-channel) is turned on.

Auto White Balance

The Circuit shown in Fig. 22 is used to switch between TR11 (R-channel) and TR11' (B-channel). The color temperature at the switching point between 3000°K and 5500°K is around 3700°K.

With photo-diodes, forward current increases as the amount of incoming light increases. Therefore, with light of 3000°K coming in, a voltage drop by R_x exceeds that by R_y. This causes potential of TC13's ⑤ to drop, which in turn causes IC13's ⑦ to go to "H" level and IC13's ① to go to "L" level. Since IC15's ② is "H" and IC15's ③ is "L", its output (IC15 ①) is "L". This causes TR20 to be turned off and TR21 to be turned on, which in turn turns TR11 on.

3) Process circuit

The process circuit consists of IC7, IC12 and IC8 and its connections are shown in Fig. 24.

If the level of the black mask portion is raised due to change in temperature, dark current (or the DC fluctuation of the black portion in the case of R-ch or B-ch) increases. This causes potential at IC12's pin ⑥ to increase, and the level at pin ⑦ to be lowered, which in turn lowers the DC level of both emitter and collector (TR1), thereby correcting the dark current.

In addition, if the DC level is varied by VR7 as indicated by ⓐ, ⓑ and ⓒ in Fig. 26, the γ point will be shifted as illustrated.

Note that at c, a slight increase in level causes " γ_1 " to operate immediately, whereas at a, only a significant increase in level causes " γ_1 " to operate. The γ -corrected signal is subjected to BLK in TR7 and then to SET-UP before being taken out as VC-4 output.

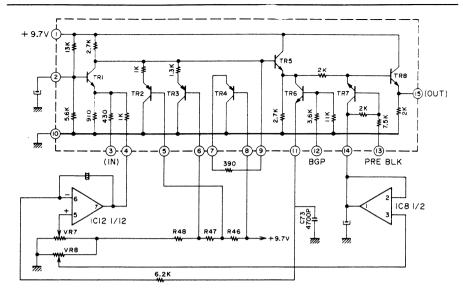


Fig. 24

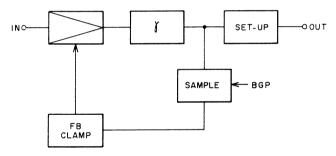


Fig. 25

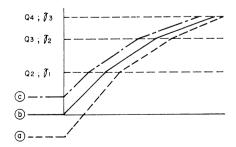


Fig. 26

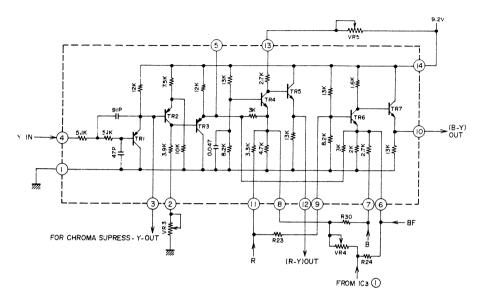


Fig. 27

4) Matrix circuit

The output from the process circuit on the video (2) P.C. Board is supplied to the matrix circuit in IC4 (VC-1) on the Video (1) P.C. Board.

The Y-signal is also supplied to IC4's pin $\widehat{\mathfrak{A}}$ from the Video (2) P.C Board, and (B-Y) and (R-Y) are obtained as output from IC4's pin $\widehat{\mathfrak{D}}$ and pin $\widehat{\mathfrak{D}}$ respectively. In addition, the correction signal from the vertical correlation circuit is also supplied to IC4's pins $\widehat{8}$ and $\widehat{6}$ to adjust vertical correlation. The TR1 circuit acts as an active low-pass filter.

5) Encoder circuit

The output (B-Y) from IC4 $\widehat{10}$ and output (R-Y) from IC4 $\widehat{12}$ are supplied to IC5 $\widehat{12}$ and $\widehat{10}$ respectively. The Y-signal that has undergone Nega/Posi selection on the Panel P.C Board is supplied to IC5 $\widehat{9}$.

In addition, the subcarrier is supplied to IC5 $\widehat{15}$ and $\widehat{16}$ and, after double balanced modulation, is taken out as output from IC5 $\widehat{8}$.

As shown in Fig. 28, IC5 incorporates a circuit whose purpose is to take out the (R-Y) + (B-Y) output from pin 3 and return it to pin 5 via the CHROMA SUPPRESS circuit. This permits chroma signals to be removed if the amount of light is less or more than specified, resulting in the B/W signal being produced.

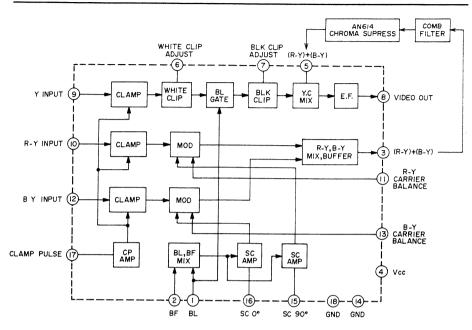


Fig. 28

6) Chroma suppressor

This circuit consists of IC6 and TRs 9–13. IC6 is controlled through the level of the Y signal supplied to IC4: the (R-Y) + (B-Y) signal is cut off if the amount of light is not at a certain level.

If the difference between the base potential of TR10 (as set by VR9) and the emitter potential ($V_{\rm H}$) of TR10 becomes 0.6V or less as the Y signal level goes up because of increase in the amount of incoming light, then TR10 is turned off, and the voltage applied to IC6 $\stackrel{\circ}{\odot}$ increases.

Since TR13 is also off at this time, voltage at IC6 $\frac{5}{2}$ is equal to potential at IC6 $\frac{5}{2}$. On the other hand, as the Y-signal level goes down past a certain level, the difference between TR12's base potential and emitter potential becomes more than 0.6V. causing TR12 to be turned on. This also causes TR10 to be turned on, resulting in the potential at IC6 $\frac{5}{2}$ being equal to that at IC6 $\frac{7}{2}$. Since the output of IC6 (AN614) is "O" when the potential at pin $\frac{5}{2}$ is equal to that at pin $\frac{7}{2}$, the chroma signal will be cut off if the amount of incoming light is not at the specified level, as discussed above.

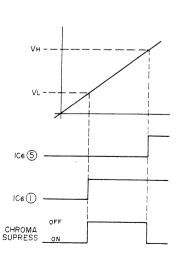


Fig. 29

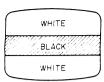


Fig. 30

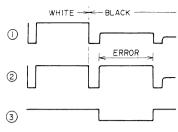


Fig. 31

7) Vertical color error correction circuit

When the picture shown in Fig. 30 is displayed, the signal pattern involved in the white/black interface is as illustrated in Fig. 31.

If the signal pattern mentioned above is delayed by 1H, a different signal pattern shown in $\widehat{2}$ will be produced.

Subtracting ② from ① will result in the signal pattern illustrated in ③ above, which is then added to ① to adjust vertical color errors.

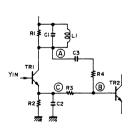
2-3-2. Y-Signal Circuit

The signal that has passed through the AGC circuit on the Video (2) P.C Board is then routed through EF (TR2) and then through FL1 (LPF: 3 MHz or lower) where the signal has its modulated chroma component removed (i.e., the Y-signal is passed through the process circuit of VC-4 and then taken out as the AGC signal from J15 $\widehat{?}$ to be delivered to the Panel P.C Board.

The Y-signal is also supplied to the Video (1) P.C Board as "Yout".

1) Aperture circuit

As illustrated in Fig. 32, the waveform ® is obtained through a differential circuit with L and differential circuit with C3.



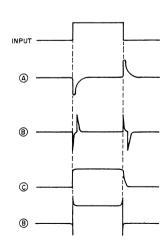


Fig. 32

2) Y Nega/Posi circuit

The Posi signal is conveyed to the N/P change-over switch on the Panel P.C Board via TR2 and TR3. The Nega signal is produced by TRs 4-6.

With only the inversion circuit involved, there will be no output if B is clamped by CP as illustrated in Fig. 34. The disappearance of the signal can be avoided by clamping with D1 after introduction of HD with TR4.

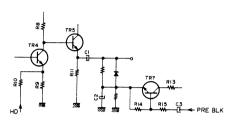


Fig. 33

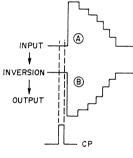


Fig. 34

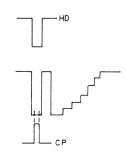


Fig. 35

2-4. Auto Iris

With the auto iris circuit, the pre-amp output is first passed through EF (TR22), then clamped by TR23, and finally integrated by R82/C42.

Subsequently, after impedance conversion, the iris motor is driven by IC16. The drive coil is one that is located between P12's $\tilde{\beta}$ and $\tilde{\pm}$, while the dump coil is one that is placed between P12's $\tilde{1}$ and $\tilde{3}$. The iris speed is controlled by taking out acceleration output from the dump coil and then supplying it to IC16 $\tilde{\delta}$.

In addition, balance current is alway flowing through the drive coil since the iris is always subjected to a force which tends to close it.

Thus, turning off the power causes the iris to be closed automatically, thereby providing a means of protecting the vidicon.

2-5. Power Zoom

The power zoom circuit is driven by IC17.

Depressing the tact switch slightly causes Common, A and C to be connected (first step).

Further depression of the switch causes all of Common, A, B and C to be brought into contact (Second step).

Thus, in the first step with the Wide Switch, voltage EW₁ which is obtained by dividing 4.7V by R95 and R94 is applied to IC17 6. When the switch is further depressed, voltage EWz which is obtained by dividing 4.7V by R95//R96 and R94 is applied.

Since $EW_1 < EW_2$, output voltage in the second step is lower than that in the first step, making zooming possible in the second step.

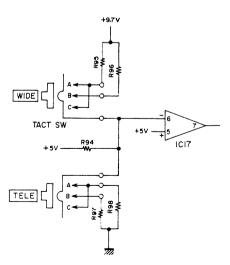


Fig. 36

VI. ADJUSTMENT

1. TOOLS, ETC. REQUIRED FOR ADJUSTMENT

1) Linearity Checker Circuit

It is necessary to build a linearity checker circuit which is required in adjustment step 14. Note that the major parts and their numbers are as follows:

Parts No.

Description

EI704201 IC M5144P

ET632204 TR 2SC945L K, P, O

EC700214 Trimmer/C. MCV50D1H200YZ VC-65

Method of Adjusting TC1 and VR1

Supply a sine wave of 3.8 MHz to INPUT and adjust TC1 so that the waveform on the oscilloscope is at 5.5V (center). Then, adjust VR1 so that a difference of ±1V can be obtained with 3.8 MHz ± 100 kHz.

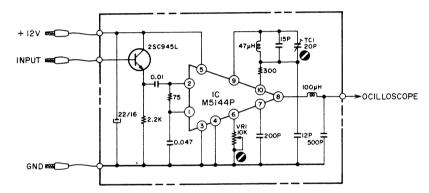


Fig. 37

2) Extension Cords

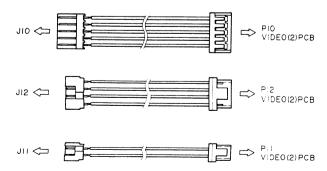


Fig. 38

3) Resistances for heaters

Since the heaters for the vidicon and EVF's CRT are connected in series, if adjustment is made with the EVF BLK removed, a resistance of 36 ohms

must be installed as illustrated above. Note that a resistance of 1 kohm serves as a video circuit's output impedance.

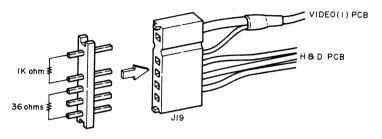


Fig. 39

2. ADJUSTING THE CAMERA PROPER

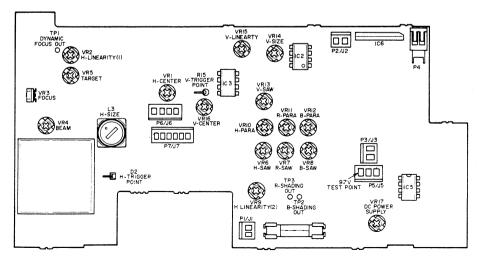
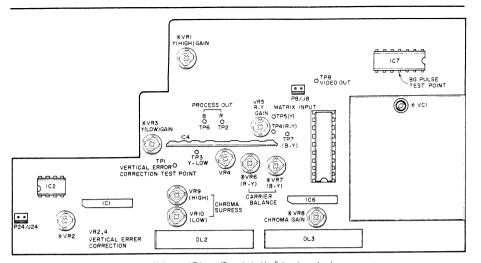


Fig. 40 H & D PCB



Volume and Trimmer/C, marked with : have been already adjusted in our factory. Do not adjust, accordingly.

Fig. 41 Video (1) PCB

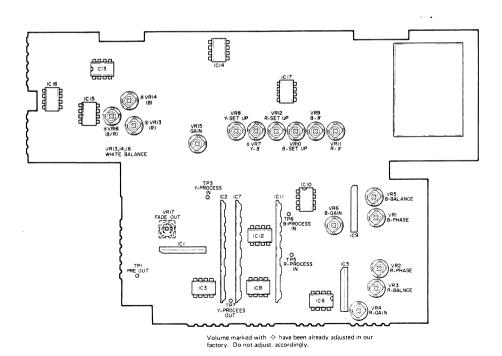


Fig. 42 Video (2) PCB

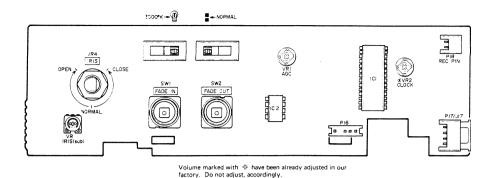


Fig. 43 Panel PCB

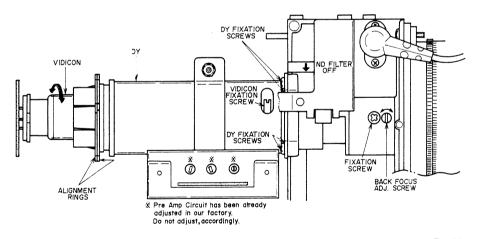


Fig. 44

Step	Adjustment Item	Pattern	Iris	Test Point	Adjustment Parts	Result & Remarks
1	Setting					Set each switch to proper position Nega/Posi switch NORMAL White Balance switch 3000°K AF switch MANUAL ND filter OFF
2	DC Power Supply			P5 ① (H & D PCB)	VR17 (H & D PCB)	Increase the voltage by steps and set at +9.7V.
3	Beam	White	Open	Monitor Screen	VR4 (H & D PCB)	Set VR4 so that the picture is produced on the screen.
4	Checking for dirt	White	Open	Monitor Screen		Upon replacement of the vidicon, make certain that there is no adhering dirt or dust.
5	Target (After 20 ~ 30 minutes of ageing)		Close	TP1 (Video 2 PCB)	VR5 (H & D PCB)	Adjust so that the waveform has a height of 10 mV (at 20°C ± 5°C).
6	· Beam	Bright object in portion of picture	Open	TP1 • (Video 2 PCB)	VR4 (H & D PCB)	Include a bright object in a portion of the picture and adjust so that the saturation level of the output waveform is 600 mV.
7	Turning Tube	White	F5,6	TP1 (Video 2 PCB)	Vidicon (Loosen retaining screws)	Turn the vidicon so that the rising portion of the waveform appears as a single line. (Caution: high tension is involved).
8	Horizontal Adjustment	Resolu- tion	F5,6	Monitor Screen	Deflecting coil (Loosen 4 retaining screws)	Loosen 4 screws retaining the deflecting coil and turn the deflecting coil so that the picture is made level.

Step	Adjustment Item	Pattern	Iris	Test Point	Adjustment Point	Result & Remarks
9	Size	Resolu- lution	F5,6	Monitor Screen	VR14 (V Size) L3 (H Size) (H & D PCB)	Block Mask Rotate the zoom ring to display the resolution pattern as large as possible on the monitor screen. Adjust VR14 and L3 so that wedges on each side of the pattern coincides with the boundary of the monitor screen.
10	Ageing		Close			Allow about one hour of ageing (at 20°C ± 5°C).
11			Re	adjust steps 5 an	d 6 (target and b	eam).
12	Focus	White	F5,6	TP1 (Video 2 PCB)	VR3 (H & D PCB)	Adjust so that the modulated wave in the waveform becomes maximum.
13	Back Focus			Monitor Screen	Back Focus Adjustment Screw	 Set the focus ring to "∞", zoom to WIDE, and then shoot a distant object. Loosen the fixation screw and focus by means of the adjusting screw. Zoom to TELE and focus by means of the focus ring. Zoom once again to WIDE and adjust to get the right focus by means of the adjusting screw. Repeat the above steps 1 through 4 until the object focused upon zooming to WIDE is found to be still in focus upon zooming to TELE. After this, tighten the fixation screw.

Step	Adjustment Item	Pattern	Iris	Test Point	Adjustment Parts	Result & Remarks
14	H Deflection	White	F5,6	Connect linearity checker input to TP1 (Video 2 PCB) and its output to oscilloscope.	L3 (H Size) VR3 (H Linearity) VR9 (H Linearity) (H & D PCB)	Obtain an average output of 5.5V by means of L3. Adjust VR2 and VR9 alternately to flatten the waveform. Repeat the adjustment until the satisfactory results are obtained.
15	H Center	White	F5, 6	CH1: TP3 (Video 2 PCB) CH2: IC7 ④ (Video 1 PCB)	VR1 (H & D PCB)	Y PROCESS INPUT. O'N CH2 IO'N BG PULSE Adjust VR1 so that the interval between the rising portion of the Y-process input waveform and the BG pulse is 1.5 µsec.
16	V Deflection	Resolu- tion	F5,6	Monitor Screen	VR14 (V-Size) VR15 (V Linearity) (H & D PCB)	1. Zoom up so that the right-hand wedges for H-direction are as near to the edge of the monitor screen as possible. Note that the left-hand wedges must be hidden by the black mask. 2. Adjust by means of VR14 so that the wedges for V-direction are as near to the edges of the monitor screen as possible. 3. Adjust VR15 so that the circles in the corners are free of distortions.

Ste	Adjustment Item	Pattern	Iris	Test Point	Adjustment Parts	Result & Remarks
17	V Center	Resolu- tion	F5.6	Monitor Screen	VR16 (H & D PCB)	Zoom to TELE and adjust the camera position so that the center of the pattern is at the center of the monitor screen. Zoom to WIDE and adjust VR so that the center of the pattern coincides with the center of the monitor screen.
18	IRIS Set	Gray Scale	Click	TP1 Video 2 PCB)	VR3 (Panel PCB)	Adjust VR3 so that the white peak (center) stands at 220 mV.
19	Fade Out	Gray Scale	Click	TP3 (Video 2 PCB)	VR17 (Video 2 PCB)	Short the Rec socket P18 (Panel PCB) with a screwdriver, etc. Press the fade-out SW to verify that the picture darkens. HINDER MINIMUM (H-RATE) Adjust VR17 so that the waveform is minimized. Press the fade-in SW to verify that the picture brighten.
20	AGC (1)	Gray Scale	Release iris from "click" position and turn it clockwise slightly.	TP3 (Video 2 PCB)	VR15 (Video 2 PCB)	Adjust VR15 so that the white peak (center) stands at 550 mV.
21	AGC (2)	Gray Scale	Click	TP3 (Video 2 PCB)	VR1 (Panel PCB)	Put the iris back to the "click" position and adjust VR1 so that the white peak (center) stands at 550 mV.
22	AGC (3)	Gray Scale	Close	TP7 (Video 2 PCB)	VR8 (Video 2 PCB)	(H-RATE) Adjust VR8 so that "set-up" becomes zero.

Step	Adjustment Item	Pattern	Iris	Test Point	Adjustment Parts	Result & Remarks						
23	Alignment	White	W hite	Click	TP1 TP3 TP2 (H & D PCB)	VR3 (Focus) VR7 (R-SAW) VR11 (R-PARA) VR8 (B-SAW) VR12 (B-PARA) (H & D PCB)	Set up a state in which Dynamic Focus/Shading is cancelled.					
			THE CONTRACTOR OF THE CONTRACT	Monitor Screen	VR3 (H & D PCB) Alignment ring	Adjust the alignment ring and Focus (VR3) alternately so that the optimum shading is obtained.						
24	Focus	White	Click	Monitor Screen	VR3 (Focus) VR10 (H-PARA) VR6 (H-SAW) VR13 (V-SAW) (H & D PCB)	1. Reduce the green portion of the picture by means of VR3. 2. Minimize unevenness in color at the sides and around the center by means of VR10. 3. Minimize unevenness in color at the right and left by means of VR6. 4. Minimize unevenness in color at the top and bottom portions of the screen by means of VR13. 5. Minimize unevenness in color around the center of the screen by means of VR3. 6. For unevenness in color not mentioned above, readjust alignment.						
25				Readjust H-C	enter (Step 15).	Account of the second of the s						
26	Y-Signal	Gray Scale	Manual	TP7 (Video 2 PCB)	VR7 (Video 2 PCB)	Set the Iris Volume (VR4) so that the white peak (center) stands at 800 mV. Also, adjust VR7 so that the staircase wave is made linear.						
						•					Close	TP7 (Video 2 PCB)

.

Step	Adjustment Item	Pattern	Iris	Test Point	Adjustment Parts	Result & Remarks
27	B-Signal	Gray Scale	Click	TP6 (Video 2 PCB)	VR1 (B-Phase) VR5 (B-Balance) (Video 2 PCB)	Adjust VR1 and VR5 alternately so that a satisfactory staircase waveform is obtained.
				TP6 (Video 1 PCB)	VR9 (Gain) (Video 2 PCB)	Adjust VR9 so that the white peak (center) stands at 800 mV.
28	R-Signal	Gray Scale	Click	TP5 (Video 2 PCB)	VR2 (R-Phase) VR3 (R-Balance) (Video 2 PCB)	Adjust VR2 and VR3 alternately so that a satisfactory staircase waveform can be obtained.
				TP2 (Video 1 PCB)	VR4 (Gain) (Video 2 PCB)	Adjust VR4 so that the white peak (center) stands at 800 mV.

Step	Adjustment Item	Pattern	Iris	Test Point	Adjustment Parts	Result & Remarks
29	White Balance (1-1)	Gray Scale	Click	CH1: TP7 (Video 2 PCB) CH2: TP6 (Video 1 PCB)	VR6 VR9 VR10 (Video 2 PCB) VR12 VR8 (H & D PCB)	VR10 VR9 B-γ: Lower portion of staircase wave VR10 B-Setup: "Set-up" portion VR12 B-Parabola: Linearity of staircase wave VR8 B-Saw tooth: Longitudinal slope of staircase wave Adjust VRs listed above so that the Y-process output waveform (CH1) and B-process output waveform (CH2) are made identical.
30	White Balance (1-2)	Gray Scale	Click	CH1: TP7 (Video 2 PCB) CH2: TP2 (Video 1 PCB)	VR4 VR11 VR12 (Video 2 PCB) VR11 VR7 (H & D PCB)	VR4 R-Gain VR11 R-γ VR12 R-Setup VR11 R-Parabola VR7 R-Saw tooth As in step 29, adjust VRs listed above so that the Y-process output waveform (CH1) and R-process output waveform (CH2) are made identical.
		-		TP1 (Video 1 PCB)	VR2 (Video 1 PCB)	(V-RATE) Adjust VR2 so that the output waveform is reduced to zero.
31	Vertical Error Correction	Gray Scale		Monitor Screen	VR4 (Video I PCB)	WATCH THIS STRAIGHT PART Adjust VR4 so that there are no colored shades produced in the straight portions of the gray scale indicated above.

Step	Adjustment Item	Pattern	Iris	Test Point	Adjustment Parts	Result & Remarks	
32	White Balance (2)	Gray Scale	Click	TP8 (Video 1 (PCB)	VR10 (B-set up VR12 (R-set up) VR6 (B-Gain) VR4 (R-Gain) (Video 2 PCB)	Adjust VR10 and VR12 so that the carriers in the lower portions of the staircase wave are minimized. Also, adjust VR6 and VR4 so that the carrier around the middle of the staircase wave is minimized.	
33	Chroma Supressor	Gray Scale	Click	TP8 (Video 1 PCB)	VR10 (Video 1 PCB)	Adjust VR10 so that the second lowest carrier of the staircase wave	
			Open	TP8 (Video 1 PCB)	VR9 (Video 1 PCB)	is minimized. Adjust VR9 so that a little of the carrier at the white peak (center) is left, as shown above. Note that minimizing the carrier will result in discontinuity of color.	
34	Assembling					arge high voltage by shorting between h the use of a 1Mohm resistance.	
35	White Balance (2)	Readjust white balance (2) (step 32).					
36	Ageing	Close the iris and allow about five hours of ageing. (This is required only when the vidicon is replace.)					
37	White Balance (2)	Readjust white balance (2) (step 32). (This is required only when the vidicon is replaced.)					
38	Confirming	Display the white pattern and verify that there is no uneveness in color or abnormal coloration. If a vectorscope is available, make check on carrier balance.					

3. ADJUSTING THE EVF BLOCK

To adjust the EVF Block, it is necessary to connect it to the camera body that has been thoroughly adjusted.

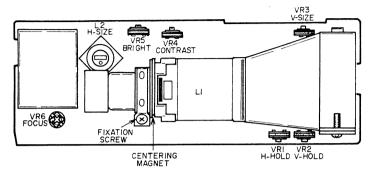


Fig. 45 EVF Block

Step	Adjustment Item	Pattern	Test Point	Adjustment Point	Result & Remarks
1	H-Hold	Resolution	EVF Screen	VR1 (H-Hold)	Fix at point at which the picture synchronizes into one picture.
2	V-Hold	Resolution	EVF Screen	VR2 (V-Hold)	Fix at position at which the picture is stationary.
3	CRT Yoke	Resolution	Monitor Screen EVF Screen	L1 (DY)	Nonitor Screen Oto.8mm Oto.8

Step	Adjustment Item	Pattern	Test Point	Adjustment Point	Result & Remarks
					(a)Monitor Screen
					(b) EVF Screen
4	H Deflection Size & V Deflection Size	Resolution	Monitor Screen & EVF Screen	L2 (H-Size) VR3 (V-Size)	(c)EVF Screen
					 Set the camera so that the wedges under each side of the pattern align with the boundary of the monitor screen. It is also necessary to make the following adjustment so that 85% ± 5% of the resolution pattern is displayed on the EVF screen.
					 Adjust L2 (H-deflection size) so that the pattern displayed is as shown in (b) above. Adjust VR3 (V-deflection size) so that the circles within the resolution pattern are free of distortions. Verify that the picture displayed on the EVF screen is 85% ± 5% of the picture displayed on the

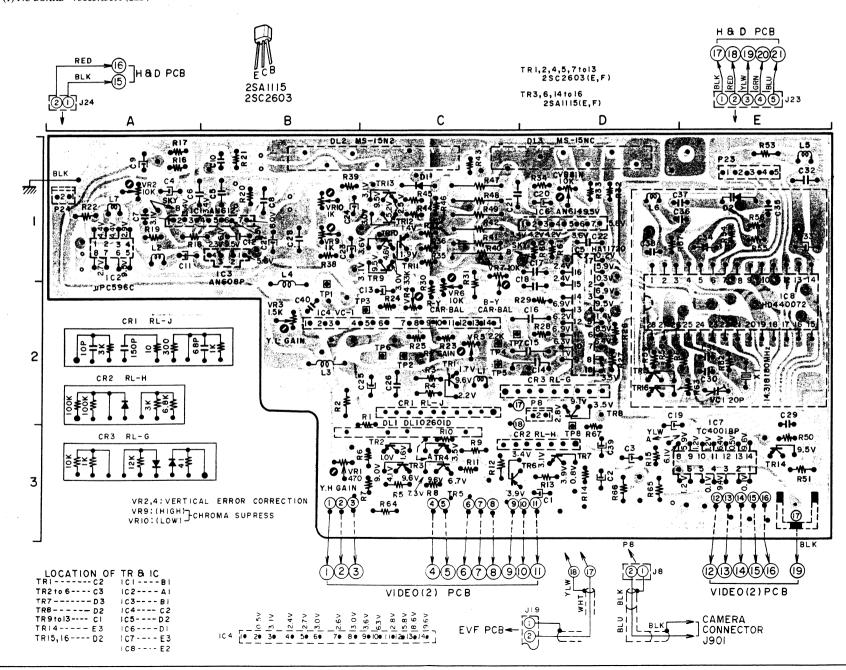
Step	Adjustment Item	Pattern	Test Point	Adjustment Point	Result & Remarks
5	Contrast	Gray Scale	EVF Screen	VR4	Adjust VR4 so that No. 9 and No. 10 of Gray Scale chart attached to the resolution pattern can be distinguished.
6	Brightness	Gray Scale	EVF Screen	VR5	Adjust VR5 to such a brightness that facilitates focusing.
7	Focus	Resolution	EVF Screen	VR6	Adjust VR6 so that the highest resolution can be obtained: verify that the resolution obtained is at least 330 lines (Horizontal) by 270 lines (Vertical).
8	Centering	Resolution	Monitor Screen & EVF Screen	Centering Magnet	Adjust centering magnet so that the center of the resolution pattern reflected on monitor screen comes to the center of screen.

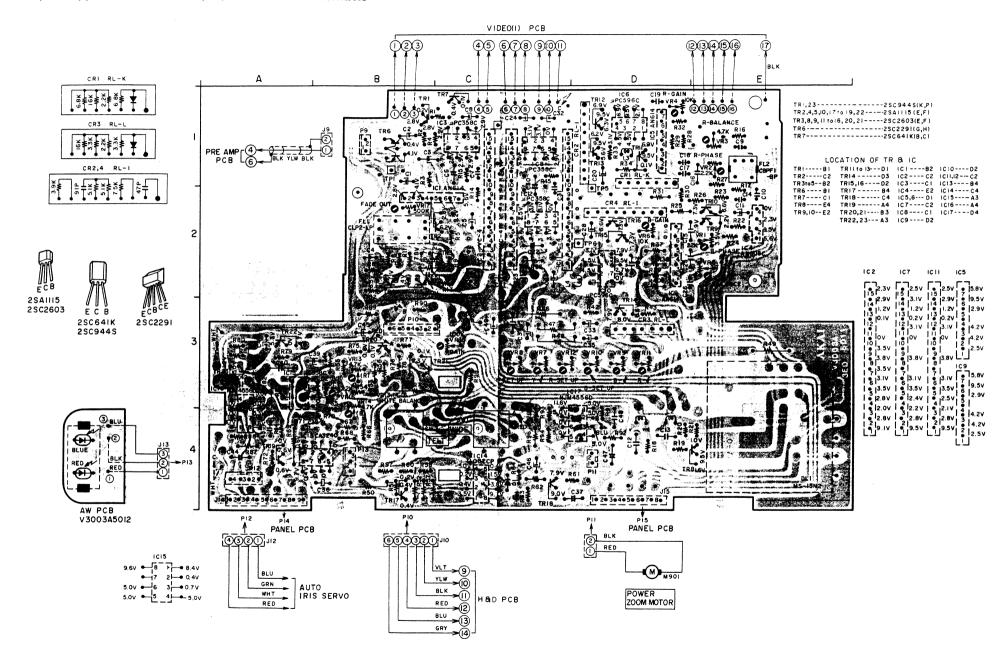
VII. CLASSIFICATION OF VARIOUS P.C BOARDS

1. P.C BOARD TITLES AND IDENTIFICATION NUMBERS

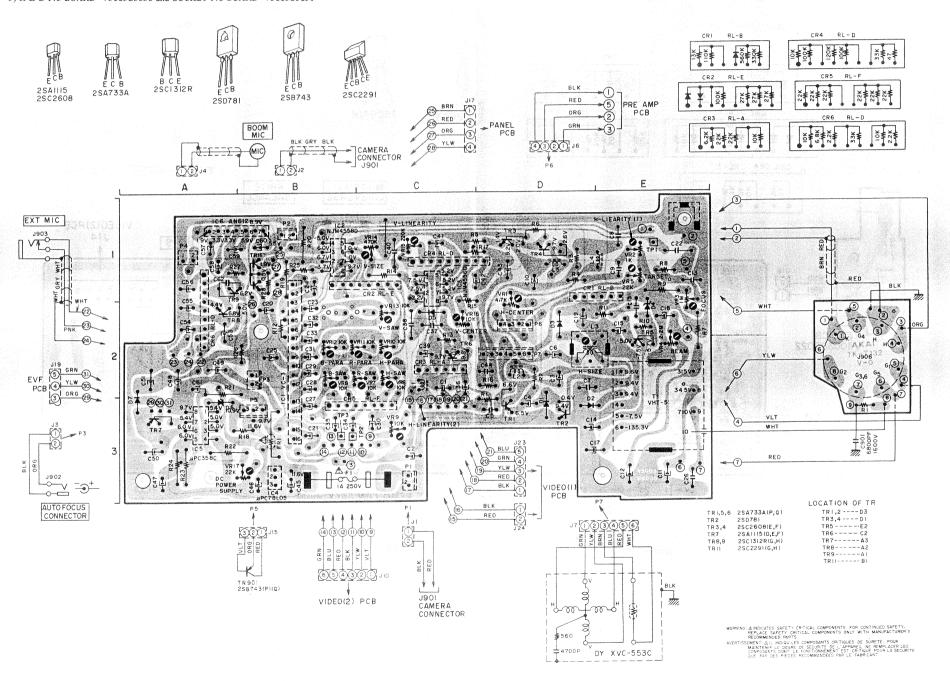
P.C Board Title	P.C Board Number
Video (1) P.C Board	V3003A5010
Video (2) P.C Board	V3003A5011
AW P.C Board	V3003A5012
Pre Amp P.C Board	V3003A5013
H & D P.C Board	V3003B5030
Socket P.C Board	V3003B5031
EVF P.C Board	V3003C5040
Panel P.C Board	V3003C5021
Rec P.C Board	V3003D5022

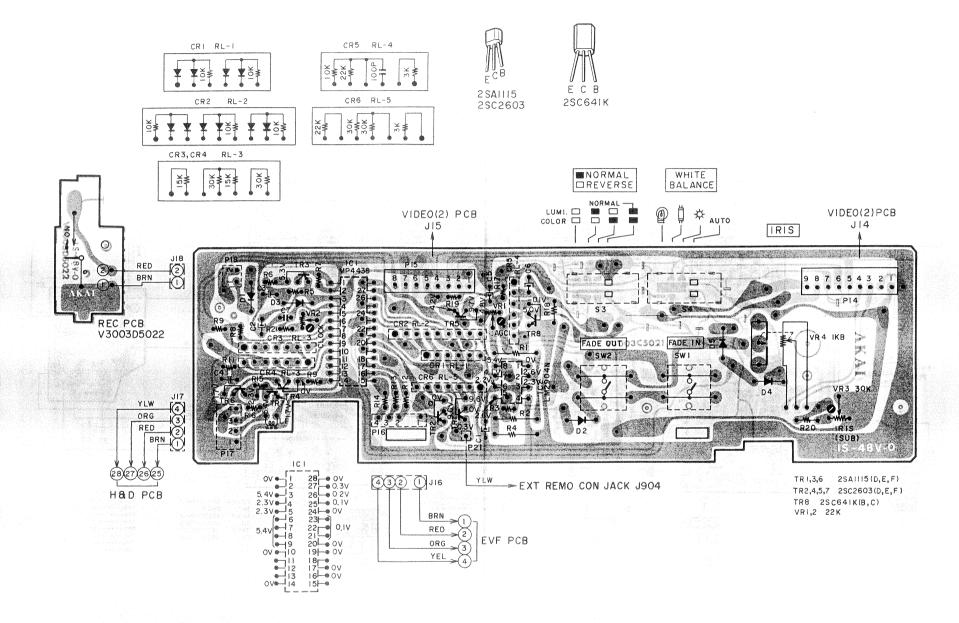
2. COMPOSITION OF VARIOUS P.C BOARDS 1) VIDEO (1) P.C BOARD V3003A5010 (2ED)



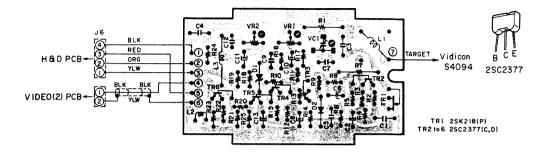


3) H & D P.C BOARD V3003B5030 and SOCKET P.C BOARD V3003B5031

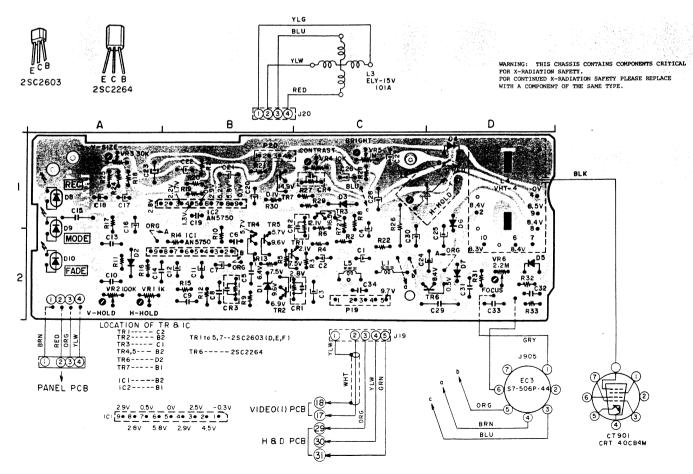




5) PRE AMP P.C BOARD V3003A5013



6) EVF P.C BOARD V3003C5040



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SECTION 2

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		2. VIDEO (1) P.C BOARD BLOCK 49	
		3. VIDEO (2) P.C BOARD BLOCK 50	
		4. H & D P.C BOARD BLOCK 51	
		5. PRE AMP P.C BOARD BLOCK	
5	48	6. PANEL P.C BOARD BLOCK 51	
. 35	5,495	7. EVF P.C BOARD BLOCK	
		8. REC P.C BOARD BLOCK 52	
		9. ASSEMBLY BLOCK	
		10. FINAL ASSEMBLY BLOCK 54	
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Resistor and Capacitor which is not listed in this parts list, please refer to COMMON LIST FOR SERVICE PARTS.

HOW TO USE THIS PARTS LIST

- 1. This parts list is compiled by various individual blocks based on assembly process.
- 2. When ordering parts, please describe parts number, serial number, and model number in detail.
- 3. How to read List

— The reference number corresponds with illustration or photo number of that particular parts list.

—— This number corresponds with the Figure Number.

--- This number corresponds with the individual parts index number in that figure.

-A small "x" indicates the inability to show that particular part 12-115**x** in the Photo or Illustration.

Ref.

Description

FLYWHEEL BLOCK =13

12-115x 800425 Flywheel Block Assy. Comp.

12-116 244506 Flywheel Only 12-117x 244754 Felt, Flywheel

12-118 251324 Main Metal Case

253080 Main Metal 12-119

Parts No.

- 4. The symbol numbers shown on the P.C. Board list can be matched with the Composite Views of Components of the Schematic Diagram or Service Manual.
- 5. Please utilize separate "Common List for Service Parts" for Resistor Parts orders.
- 6. The shape of the parts and parts name, etc. can be confirmed by comparing them with the parts shown on the Electrical Parts Table of P.C. Board.
- 7. Both the kind of part and installation position can be determined by the Parts Number. To determine where a parts number is listed, utilize Parts Index at end of Parts List.

It is necessary first of all to find the Parts Number. This can be accomplished by using the Reference Number listed at right of parts number in the Parts Index. (meaning of ref. no. outlined in Item 3 above).

8. Utilize separate "Price List for Parts" to determine unit price. The most simple method of finding parts Price is to utilize the reference number.

- CAUTION: 1. When placing an order for parts, be sure to list the parts no. model no., and description. There are instances in which if any of this information is omitted, parts cannot be shipped or the wrong parts will be delivered.
 - 2. Please be careful not to make a mistake in the parts no. If the parts no. is in error, a part different from the one ordered may be delivered.
 - 3. Because parts number and parts unit supply in the Preliminary Service Manual (Basic Parts List) may be partially changed, please use this parts list for all future reference.

WARNING: A INDICATES SAFETY CRITICAL COMPONENTS. FOR CONTINUED SAFETY, REPLACE SAFETY CRITICAL COMPONENTS ONLY WITH MANUFACTURER'S RECOMMENDED PARTS.

AVERTISSEMENT: ⚠ IL INDIQU LES COMPOSANTS CRITIQUES DE SURETE. POUR MAINTENIR LE DEGRE DE SECURITE DE L'APPAREIL NE REMPLACER LES COMPOSANTS DONT LE FONCTIONNEMENT EST CRITIQUE POUR LA SECURITE QUE PAR DES PIECES RECOM-MANDEES PAR LE FABRICANT.

1. RECOMMENDED SPARE PARTS

PARTS NO. DESCRIPTION

Because, if the parts listed below are on hand, almost any repair can be accomplished, we suggest that you stock these Recommended Spare Parts Items.

NO.	TAKTS NO.	DESCRIPTION
1-1	BM307613	MOTOR T16056-M0827Y
1-2	ED201967	D LED LN26RP RED
1-3	ED201968	D LED LN36BP GRN
1-4	ED201969	D LED LN46YP ORG
1 - 5	ED301911	D SILICON H DS448
1-6	ED200212	D SILICON H DS448F×2 F07
1-7	ED522472	D SILICON HF-1Z 200/0.6A
1-8	ED309859	D SILICON RH-1S 600/0.2A
1-9	ED523618	D SILICON SF-1-8 800/0.2A
1-10	ED200468	D SILICON V DS448 VB3
1-11	ED307645 ED310025	D VARACTOR 1S2688 D ZENER H HZ6L A2
1-13	ED307752	D ZENER H HZ6L B2
1-14	ED307690	D ZENER H HZ7L A1
1-15	EF318608	△ FUSE GGS A 250V 1A (C,A)
1-16	EF309387	△ FUSE TSC A 250V 1A (J)
1-17	E1300069	DL DL102601D-221
1-18	EI300149	DL MS-15 (N2-A)
1-19	E1300150	DL MS-15 (N2-B)
1-20	E1200556	DL MS-15N-C
1-21	EI201970	IC AN5750
1-22	EI201972	IC AN5760
1-23	EI307616	IC AN608P
1-24	EI300128	IC AN612
1-25	E1300141 E1307672	IC AN614 IC CA3240E
1-27	EI307072	IC HA11720
1-28	EI300130	IC HD440072
1-29	E1201966	FC LM2904
1-30	EI201963	IC MP4438
1-31	EI307644	IC NJM4556D
1-32	EI213390	IC NJM4558D
1-33	EI313797	IC TC4001 BP
1-34	E1324255	IC TL082CP
1-35	EI311392	IC μPC358C
1-36	EI307617	IC μPC596C
1-37 1-38	EI310031 EI307618	IC μPC78L05 IC VC-1
1-39	EI307715	IC VC-3
1-40	EI307619	IC VC-4
1-41	E1300840	OSC X'TAL HC-18/U 14.318180MHZ
1-42	EJ310203	CONNECTOR HEC-0630-01-020
1-43	EJ307403	DIN J TCS817-060 L 7P
1-44	EJ307693	PHONE J 2P HSJ0289-050 2.5
1-45	EO301916	△ COIL DEF. VIDICON XVC-553C
1-46	EO301630	COIL CA.TV FLYBACK VHT-4
1-47	EO311396	COIL DEF VIDICON ELY-15V101A
1-48	ER307628	△ R FUSE FN19 1/4W 220J
1-49	ER301631	FILTER LC BP CBPF1 3.80MHZ
1-50	ER301914	FILTER LC LP CLPF3
1-51	ES307659 ES300122	SW SLIDE MSS-P-2-4 SW TACT EVQ-QBR08K
1-52	ES307404	SW TACT KHC10014
1-54	ET307630	TR FET 2SK218 P
1-55	ET200479	TR 2SA1115 D.E.F
1-56	ET200558	TR 2SA11115 E,F
1-57	ET554657	TR 2SA733A P,Q
1-58	ET330427	TR 2SB772 E,P
1-59	ET517263	TR 2SC1312R G,H
1-60	ET305468	TR 2SC2264
1-61	ET313560	TR 2SC2291 G.H
1-62	ET330526	TR 2SC2377 C.D
1-63	ET200480	TR 2SC2603 D.E.F
1-64	ET200505	TR 2SC2603 E,F
1-65	ET330429	TR 2SC641 K B.C TR 2SC944S K.P
1-66	ET304710	TD 200791

1-67 ET307571 TR 2SD781

EU307635 △ CRT 40CB4M EU307614 \(\Delta\) IMAGE-T VIDICON S4094

1-68

REF. NO.	PARTS NO.	DESCRIPTION
1-70	EV201964	VR ROTARY 16W10S0A B102
1-71	VCB307660	LENS J6×11-14 IG AF
1-72	VC307615	MIC EMU-4628A 2.00K

2. VIDEO (1) P.C BOARD BLOCK

	. (.,	
REF. NO.	PARTS NO.	DESCRIPTION
2-1	BAV3003A230A	VIDEO PC (1) BLK VC-X1U
2-IC1	EI300128	IC AN612
2-IC2	E1307617	IC µPC596C
	EI307617	IC AN608P
2-IC3		IC VC-1
2-IC4	EI307618	
2-IC5	EI300121	IC HA11720
2-IC6	EI300141	IC AN614
2-IC7	EI313797	IC TC4001BP
2-IC8	E1300130	IC HD440072
2-TR1,2	ET200505	TR 2SC2603 E,F
2-TR3	ET200558	TR 2SA1115 E,F
2-TR4,5	ET200505	TR 2SC2603 E,F
2-TR6	ET200558	TR 2SA1115 E,F
2-TR7to13	ET200505	TR 2SC2603 E,F
2-TR14to16		TR 2SA1115 D,E,F
2-D1	ED200468	D SILICON V DS448 VB3
2-D1 2-D2	ED307645	D VARACTOR 1S2688
		C S-FIX H CTW13D117 5.0-20
2-VC1	EV300073	
2-VR1	EV307706	R S-FIX H H0651A 3P 0.05W 471
2-VR2	EV307621	R S-FIX H H0651A 3P 0.05W 103
2-VR3	EV330212	R S-FIX H H0651A 3P 0.05W
2-VR4	EV307705	R S-FIX H H0651A 3P 0.05W 333
2-VR5	EV307620	R S-FIX H H0651A 3P 0.05W
2-V R6to8	EV307621	R S-FIX H H0651A 3P 0.05W
2-VR9,10	EV307653	103 R S-FIX H H0651A 3P 0.05W
		102
2-L1	EO485278	COIL FIX 1 FL05H 220µH K
2-L2	EO243966	COIL FIX 1 FL05H 820µH K
2-L3,4	EO322395	COIL FIX 1 EL0810SKI 100µH K
2-L5	EO357287	COIL FIX 1 FL05H 100µH K
2-L6	EO307780	COIL FIX 1 LF1 39µH J
2-L7	EO350763	COIL FIX 1 FLO5H 150µH K
2-CR1		COMP CR 10-0040
		COMP RD 08-0050
2-CR2	ER302059	
2-CR3	ER302060	COMP RD 08-0051
2-X1	EI300840	OSC X'TAL HC-18/U 14.318180MHZ
2-DL1	E1300069	DL DL102601D-221
2-DL2	EI300149	DL MS-15 (N2-A)
2-D L3	EI200556	DL MS-15N-C
2-R40	ER307757	R MF H F10 1/4W 5111F
2-R40 2-R41	ER307764	R MF H F10 1/4W 2211F
		R MF H F10 1/4W 4321F
2-R42	ER307754	R MF H F10 1/4W 4321F
2-R47	ER307757	
2-R48	ER 307764	R MF H F10 1/4W 2211F
2-R49	ER 307754	R MF H F10 1/4W 4321F
2-C34	EC300193	C EC V F05 NP SM 100M 16DC

3. VIDEO (2) P.C BOARD BLOCK

REF.

3-R71

3-R73

3-C6 3-C22

3-C30

3-C37

3-C44 3-C47

- When ordering parts, please quote Parts Number, Description and Model Number, -

PARTS NO.

ER307685

ER307764

EC200948 EC307684

EC307684

EC300193

EC307793

EC307793

DESCRIPTION

R MF H 1/2W 4324G

R MF H F10 1/4W 2211F

C EC V F05 NP SM 1R0M 50DC C EC V F05 NP SM R47M 50DC C EC V F05 NP SM R47M 50DC

C EC V F05 NP SM 100M 16DC

C EC V F05 NP SM 220M 10DC

C EC V F05 NP SM 220M 10DC

REF.	PARTS NO.	DESCRIPTION
NO.		
	DA 1/2002 A 240 A	VIDEO PC (2) BLK VC-X1U
3-1	E1300141	IC ANGLA
3-101		IC AN614 IC VC-4
3-IC2	E1307619	10 002500
3-IC3	EI311392	IC μPC358C
3-1C4	EI307616	IC AN608P
3-IC5	El300141	IC AN614
3-IC6	E1307617	IC μPC596C
3-IC7	EI307619	IC VC-4
3-1C8	El311392	IC μPC358C
3-1C9	El300141	IC AN614
3-IC10	EI307617	IC µPC596C
3-IC11	El307619	IC VC-4
3-IC12	E1311392	IC μPC358C
3-IC13	E1307672	IC CA3240E
3-IC14	EI324255	IC TL082CP
3-IC15	E1311392	IC μPC358C
3-IC16	E1307644	IC NJM4556D
3-IC17	E1307644	IC NJM4556D
3-TR1	ET304710	TR 2SC944S K,P
3-1 R 1 3-T R 2	ET200558	TP 2841115 F F
3-1 R2 3-TR3		TR 2SA1115 E,F
	ET200505	TR 2SC2603 E,F
3-TR4,5	ET200558	TR 2SA1115 E,F
3-TR6	ET313560	TR 2SC2291 G,H
3-TR7	ET330429	TR 2SC641K B,C
3-TR8,9	ET200505	TR 2SC2603 E,F
3-TR10	ET200558	TR 2SA1115 E,F
3-TR11to16		TR 2SC2603 E,F
3-TR17to19		TR 2SA1115 E,F
3-TR20,21	ET200505	TR 2SC2603 E,F
3-TR22	ET200558	TR 2SA1115 E,F
3-TR23	ET304710	TR 2SC944S K,P
3-D1	ED200468	D SILICON V DS448 VB3
3-D2	ED301911	D SILICON H DS448
3-SW1,2	ES300122	SW TACT EVQ-QBR08K
3-VR1,2	EV307624	R S-FIX H H0621A 3P 0.30W
		222
3-VR3	EV307694	R S-FIX H H0651A 3P 0.05W
		472
3-VR4	EV307621	R S-FIX H H0651A 3P 0.05W
	2.00,021	103
3-VR5	EV307694	R S-FIX H H0651A 3P 0.05W
3- V IC3	L V 30 / 054	472
3-VR6	EV307621	R S-FIX H H0651A 3P 0.05W
3- V KO	EV 30 / 621	
		103
3-VR7to12	EV307624	R S-FIX H H0621A 3P 0.30W
		222
3-VR13,14	EV307694	R S-FIX H H0651A 3P 0.05W
		472
3-VR15	EV307695	R S-FIX H H0651A 3P 0.05W
		104
3-VR16	EV307624	R S-FIX H H0621A 3P 0.30W
		222
3-VR17	EV330364	R S-FIX V EVN-B1A 3P 504
3-L1,2	EO310075	COIL FIX 1 FL05H 15µH K
3-L3,4	EO350763	COIL FIX 1 FL05H 150µH K
3-L5	EO322395	COIL FIX 1 EL0810SKI
		100µH K
3-FL1	ER301914	FILTER LC LP CLPF3
3-FL2		FILTER LC BP CBPF1 3.80MHZ
3-CRI		COMP RD 08-0065 PART
3-CR2		COMP CR 10-0038
3-CR3	EIB319253	COMP RD 08-0064 PART
3-CR4		COMP CR 10-0038
3-DL1		DL MS-15 (N2-B)
		R MF H F10 1/4W 5621F
		R MF H F10 1/4W 5621F R MF H F10 1/4W 3010F
3-R47		
3-R48		R MF H F10 1/4W 3650F
3-R49	ER307767	R MF H F10 1/4W 2741F
	ER307730	R MF H F10 1/4W 7502F
	ER 307668	R MF V 1/4W 1504F
		R MF H F10 1/4W 4323F
3-R 70	ER307685	R MF H 1/2W 4324G

4. H & D P.C BOARD BLOCK PARTS NO.

DESCRIPTION

REF. NO.

l-1	BAV3003A210A	H & D PC BLK VC-X1U
		IC VC-3
I-IC2	E1307715 E1213390 E1307644 E1310031	IC NJM4558D
1-1C3	E1307644	IC NJM4556D
1-IC4	E1310031	1C #PC781.05
I-IC5	E1310031 E1311392 E1300128 ET554657	IC μPC358C
I-IC6	F1300128	IC AN612
-TRI	FT554657	TR 2SA733A P.O
-TR2	ET307571	TR 2SD781
-1 R2 1-TR3,4	ET200505	TR 2SC2603 E.F
1-TR5,6	ET200505 ET554657 ET200479	TR 25A733A P O
1-TR7	ET300470	TR 25A1115 D.E.F
+- I R /	ET517263	TR 25C1312R G.H
+-1 KO,7	ET517263 ET313560	TR 2SC2291 G.H
1-1 K 1 1 1-D 1	ED200468	D SILICON V DS448 VB3
1-D2,3	ED200468 ED522472 ED307752 ED200468 ED310025 ED200468 ER 307628	IC µPC358C IC AN612 TR 2SA733A P,Q TR 2SD781 TR 2SC2603 E,F TR 2SA733A P,Q TR 2SA1115 D,E,F TR 2SC31312R G,H TR 2SC291 G,H D SILICON V DS448 VB3 D SILICON HF-1Z 200/0.6A D ZENER H HZ6L B2 D SILICON V DS448 VB3 D ZENER H HZ6L A2 D SILICON V DS448 VB3 R FUSE FN19 1/4W 220J
1-D2,3 1-D4	ED322472	D ZENER H HZ61, B2
1-D4 1-D5	ED307752	D SILICON V DS448 VB3
1-D6	ED200400	D ZENER H HZ61. A2
1-D6 1-D7	ED310023	D SILICON V DS448 VB3
+-D/	ED200400	R FUSE FN19 1/4W 220J
I-FR1	EN307020	R FUSE FN19 1/4W 220J R S-FIX H H0651A 3P 0.05W
4-VR1	EV307621	103
. 1/00	EV307653	R S-FIX H H0651A 3P 0.05W
4-VR2	E V 30 / 03 3	102
4-VR3	EV307656	R S-FIX V EVM-30G 3P 0.30W
4-VR4	EV307637	R S-FIX H H0651A 3P 0.05W
4-VR5	EV307654	225 R S-FIX H H0651A 3P 0.05W
4-VR6to13		224 R S-FIX H H0651A 3P 0.05W
4-VR14		103 R S-FIX H H0621A 3P 0.30W
4-VR15	EV307654	474 R S-FIX H H0651A 3P 0.05W
		224 R S-FIX H H0651A 3P 0.05W
4-VR16	EV307621	103
4-VR17	EV307629	R S-FIX H H0621A 3P 0.30W 223
4-L1,2	EO357287	COIL FIX 1 FL05H 100µH K
4-L3	EO357287 EO307409	COIL CA TV LINEARITY
		CANS-4668Z
4-L4,5	EO244012 EO307646	COIL FIX 1 FL09H 22MH J
4-T1	EO307646	COIL CA, TV HIGH VOLT
		VHT-5
4-CR1	ER302056	COMP RD 08-0048
4-CR2	ER307771	COMP RD 08-0057
4-CR3	ER307769	COMP R 02-0045
4-CR4	ER307770	COMP R 02-0046
4-CR5	ER302058	COMP R 02-0041
4-CR6	ER330220	COMP R 02-0059
4-R9	ER311423	R MF H F10 1/4W 2004F
4-R14	ER311422 ER330304	R MF H F10 1/4W 1004F
4-R19	ER330304	R MF H F10 1/4W 1102F
4-R20	ER307729	R MF H F10 1/4W 1502F
4-R21	ER307756	R MF H F10 1/4W 4752F
4-R22	ER307755	R MF H F10 1/4W 3922F
4-R22 4-R23 4-R24	ER307756 ER307755 ER307759 ER307729	COMP R 02-0041 COMP R 02-0059 R MF H F10 1/4W 2004F R MF H F10 1/4W 1102F R MF H F10 1/4W 1102F R MF H F10 1/4W 1502F R MF H F10 1/4W 4752F R MF H F10 1/4W 3922F R MF H F10 1/4W 3921F R MF H F10 1/4W 3921F C MF H F10 1/4W 1502F C PF V ECQ-P 4701G 100DC C EC V UHU1R0 450DC C EC V R5A 1R0 350DC C CC V E 472P 500DC
4-R24	ER307729	R MF H F10 1/4W 1502F
4-C7	EC307778	C PP V ECQ-P 4701G 100DC
4-C11	EC307407	C EC V UHU1RO 450DC
4-C12	EC307407 EC231568	C EC V R5A 1R0 350DC
4-C13	EC307724	C CE V E 472P 500DC
4-C17to19	EC201440	C EC V F05 SL 1R0 160DC
4-C22	EC307648	C MY V AMR 223M 400DC
4-C26	EC307722	C CE V E 472Z 1000DC

5. PRE AMP P.C BOARD BLOCK

REF. NO.	PARTS NO.	DESCRIPTION
5-1	BAV3003A190A	PRE AMP PC BLK VC-X1U
5-TR1	ET307630	TR FET 2SK218 P
5-TR2106	ET330526	TR 2SC2377 C,D
5-D1	ED307690	D ZENER H HZ7L A1
5-D2	ED301911	D SILICON H DS448
5-VC1	EC307634	C S-FIX V ECV-1ZW10×60
5-VR1	EV307633	R S-FIX V EVN30C 3P 102
5-V R2	EV307691	R S-FIX V EVN30C 3P 202
5-L1	EO307632	COIL CA, TV PERSIVAL
		ELT-12R003
5-L2	EO357287	COIL FIX 1 FL05H 100µH K
5-L3	EO307751	COIL FIX 1 LAL04KB 68µH J
5-C3,4	EC307692	C MY V AMX 223K 100DC
5-C7	EC452665	C MC V FM 200J 500DC
5-C9	EC307711	C PP V APS 102J 100DC
5-C12	EC589680	C MC V FM 180J 500DC

6. PANEL P.C BOARD BLOCK

REF. NO.	PARTS NO.	DESCRIPTION
6-1	BDV3003A260A	PANEL PC BLK VC-X1U
6-IC1	EI201963	IC MP4438
6-IC2	EI201966	IC LM2904
6-TR1	ET200479	TR 2SA1115 D,E,F
6-TR2	ET200480	TR 2SC2603 D,E,F
6-TR3	ET200479	TR 2SA1115 D,E,F
6-TR4,5	ET200480	TR 2SC2603 D,E,F
6-TR6	ET200479 · · · ·	-TR 2SA1115 D,E,F
6-TR7	ET200480	TR 2SC2603 D,E,F
6-TR8	ET330429	TR 2SC641K B,C
6-TR9	ET200479	TR 2SA1115 D,E,F
6-D1to5	ED200212	D SILICON H DS448Fx2 F07
6-SW1,2	ES307404	SW TACT KHC10014
6-VR1	EV307629	R S-FIX H H0621A 3P 0.30W
		223
6-VR2	EV307709	R S-FIX H H0651A 3P 0.05W
		223
6-VR3	EV307737	R S-FIX H EVNB3AA00 3P 303
6-L1	EO574187	COIL FIX 1 FL05H 100µH M
6-CR1	ER307739	COMP RD 08-0059
6-CR2	ER307740	COMP RD 08-0060
6-CR3,4	ER307741	COMP R 02-0052
6-CR5	ER307742	COMP CR 10-0042
6-CR6	ER307743	COMP R 02-0053
6-R1	ER307756	R MF H F10 1/4W 4752F
6-R2	ER307707	R MF H F10 1/4W 2000F
6-R4	ER307781	R MF H F10 1/4W 2002F

--- When ordering parts, please quote Parts Number, Description and Model Number. --

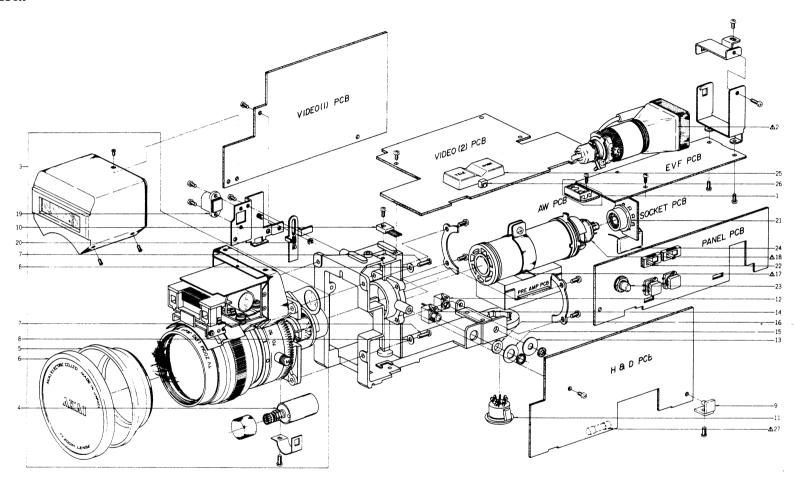
7. EVF P.C BOARD BLOCK

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8. REC P.C BOARD BLOCK

REF. NO.	PARTS NO	DESCRIPTION
8-1	BAV3003A060A	REC PC BLK VC-X1U
8-J18	EJ308102	SOCKET HOUSING
		M62-02-6251SA 2P
8-2	EA307953B	PC REC
8-3	ZG307876	SP PLATE REC

9. ASSEMBLY BLOCK



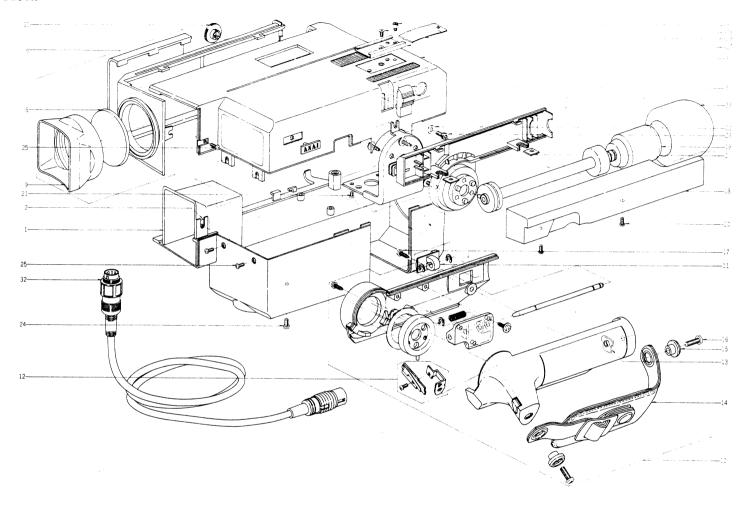
ASSEMBLY BLOCK

REF. NO.	PARTS NO.	DESCRIPTION	REF.	PARTS NO.	
	AW BLK		9-9	VC307663	н
9-1	BAV3003A080	A AW BLK VC-X1U	9-10	ET330427	T
	EVF BLK			CAMERA CON	INEC
9-2	EU307635	△ CRT 40CB4M	9-11	EJ307403	D
	CHASSIS CAM	ERA BLK		2P CONNECTO	OR BI
9-3	VCB307660	LENS J6×11-14 IG AF	9-12	EJ307693	Pł
9-4	BM307613	▲ MOTOR T16056-M0827Y	9-13	EJ328679A	PV
9-5	VC780011	HOOD LENS B12-2013-K101			
9-6	VC780010	HOOD CAP B12-2013-K101		JACK BLK	
9-7	ZS321537	PLX PAN30×10STL CMT	9-14	EJ464995	Pł
9-8	ZW306464	PW31×070×050STL CMT	9-15	EJ328679B	PV

.F.).	PARTS NO.	DESCRIPTION	REF. NO.	PARTS NO.	DESCRIPTION	
	VC307663	HINGE TYPE (B) NO312	9-16	VT422537	NYLON COLLAR FOR JACK D3.5	l
0	ET330427	TR 2SB772 E,P				
				IMAGE TUBE	BLK	1
	CAMERA CON	NECTOR BLK	9-17	EO301916	△ COIL DEF. VIDICON XVC-553C	1
1	EJ307403	DIN J TCS817-060 L 7P	9-18	EU307614	△ IMAGE-T VIDICON S4094	
	2P CONNECTO	OR BLK		HOLDER ND I	BLK	
2	EJ307693	PHONE J 2P HSJ0289-050 2.5	9-19	EJ310203	PLUG CONNECTOR EC0630-020 2P	
3	EJ328679A	PW JACK (1)	9-20	ZG312944	SP T1-3.2/0.29-12.5 T1-060	
	JACK BLK			PC SOCKET B	LK	
4	EJ464995	PHONE J 2P SJ296-1-15 3.5	9-21	EJ311395	SOCKET VIDICON MT-7P	
5	EJ328679B	PW JACK (2)			S8-612J-02 P	1

	REF. NO.	PARTS NO.	DESCRIPTION
ACK D3.5		PANEL BLK	
	9-22	ES307659	SW SLIDE MSS-P-2-4
	9-23	EV201964	VR ROTARY 16W10S0A B102
X V C-553C			
1094		ASSEMBLY BLK	
	9-24	EC307649	C MMY V ECO-E 682M1600DC
	9-25	SK307883	KNOB ZOOM
630-020 2P	9-26	SK307878	HOLDER KNOB ZOOM
0	9-27	EF318608	△ FUSE GGS A 250V 1A (C,A)
	9-28x	EF309387	△ FUSE TSC A 250V 1A (J)

10. FINAL ASSEMBLY BLOCK



FINAL ASSEMBLY BLOCK

REF. NO.	PARTS NO. DESCRIPTION	REF. NO.	PARTS NO. DESCRIPTION	REF. NO.	PARTS NO.	DESCRIPTION	REF.	PARTS NO.	DESCRIPTION
10-1 10-2	CASE CAMERA (A) BLK BC307895	10-6	CASE CAMERA (C) BLK BDV3003A130B CASE CAMERA (C) BLK VC-X1U(C) (C,A)	10-15	VC307942 VC307887 ZS558090	GRIP BAND COLLAR GRIP BAND BID40×14STL BNI		ZS419938 ZW306464 ZS593908	6RB30×080SCM PKR R PW31×070×050STL CMT PAN30×06STL NI3
10.7	CASE CAMERA (B) BLK	10-7x 10-8	BDV3003A130A CASE CAMERA (C) BLK VC-X1U(J) VC307661 LENS EYE	10-17	ZS311098	T2PAN30×10STL BNI		ZS410231 ZS306001	PAN26×05STL NI3 T2PAN26×08STL CMT
10-3	BDV3003A120B	10-9	VC307938 HOOD EYECAP	10-18	CASE MIC BLK SP307899	CASE MIC (B)	10-27	A X 307863 ZS419850	ACCS SHOE CTS26x05STL NI3
10-4x 10-5	BDV 3003A120A CASE CAMERA (B) BLK VC-X1U(J) SK307884 KNOB ND	10-10	CASE GRIP BLK BDV3003A020A CASE GRIP BLK VC-X1U		VC307615 ZS307944	MIC EMU-4628A 2.00K PAN26×05STL BNI	10-29	ZG307864 ZS307865	SP PLATE ACCS SHOE SCREW ACCS SHOE
			SK307886 KNOB LOCK VCV3003A050A HOLDER REC BLK VC-X1U ZW307872 NUT (B)	10-21	FINAL ASSEMB ZS309374	LY BLK CTS26×08STL BNI	10-32	SK307882 EW201962 VC311418	KNOB IRIS CAMERA CABLE 2993 MIC WIND SCREW (LARGE)

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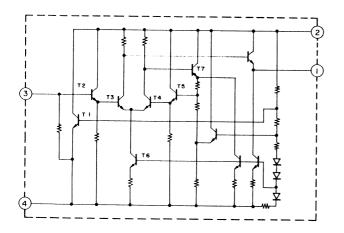
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SECTION 3

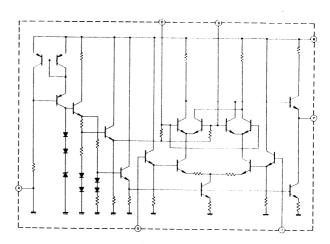
SCHEMATIC DIAGRAM

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- 2. VC-X1U NO. 8-1 1621244A BLOCK DIAGRAM
- 3. VC-X1U NO. 8-2 1621245A CONNECTION DIAGRAM
- 4. VC-X1U VIDEO (1) NO. 8-3 1621246A SCHEMATIC DIAGRAM
- 5. VC-X1U VIDEO (2) NO. 8-4 1621247A SCHEMATIC DIAGRAM
- 6. VC-X1U H & D NO. 8-5 1621248A SCHEMATIC DIAGRAM
- 7. VC-X1U PANEL NO. 8-6 1621249A SCHEMATIC DIAGRAM
- 8. VC-X1U EVF NO. 8-7 1621250A SCHEMATIC DIAGRAM
- 9. VC-X1U AMP NO. 8-8 1621251A SCHEMATIC DIAGRAM

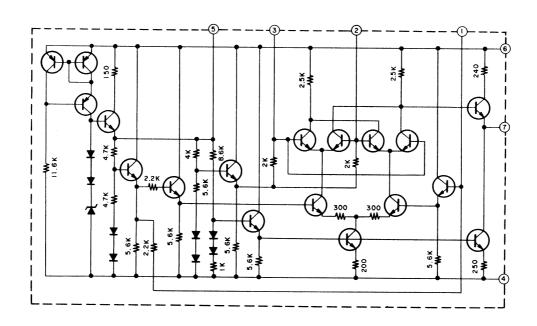
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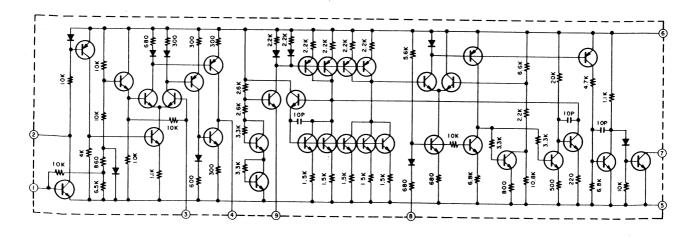
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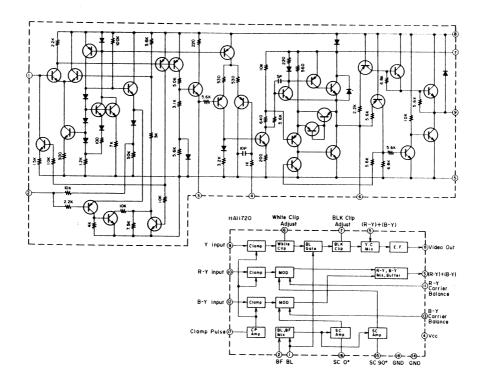
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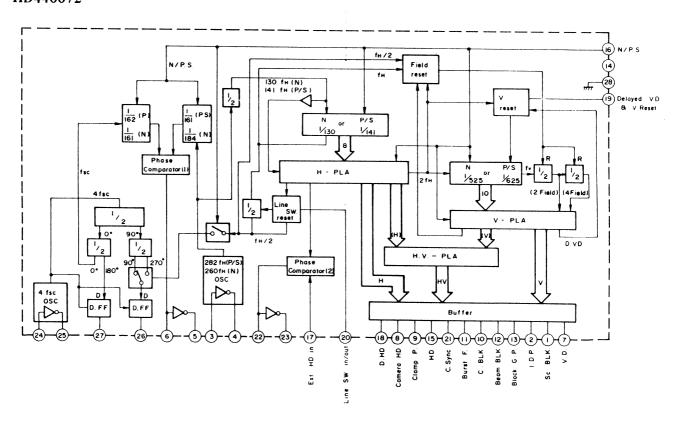
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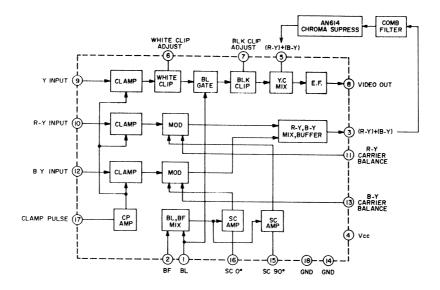
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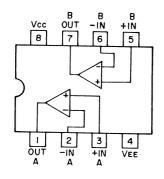
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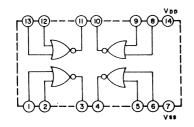
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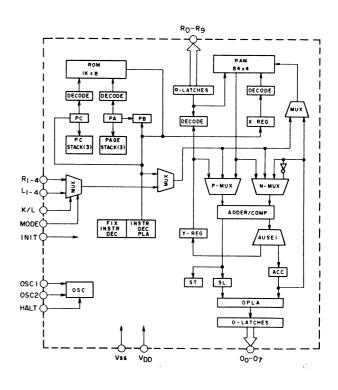
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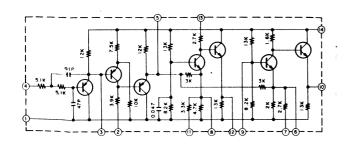
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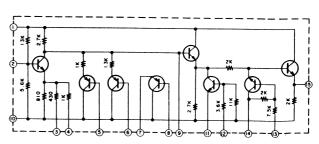
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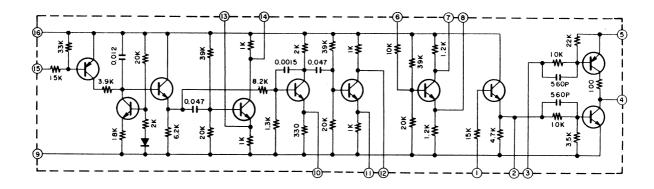
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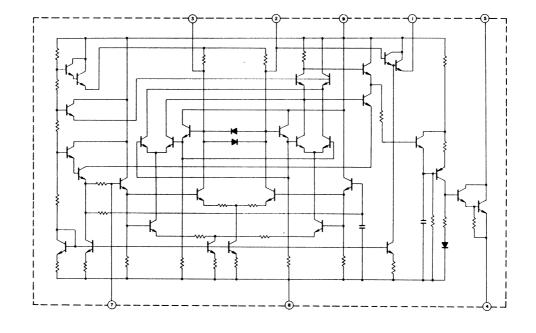
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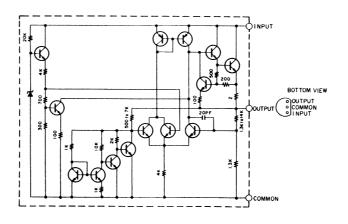
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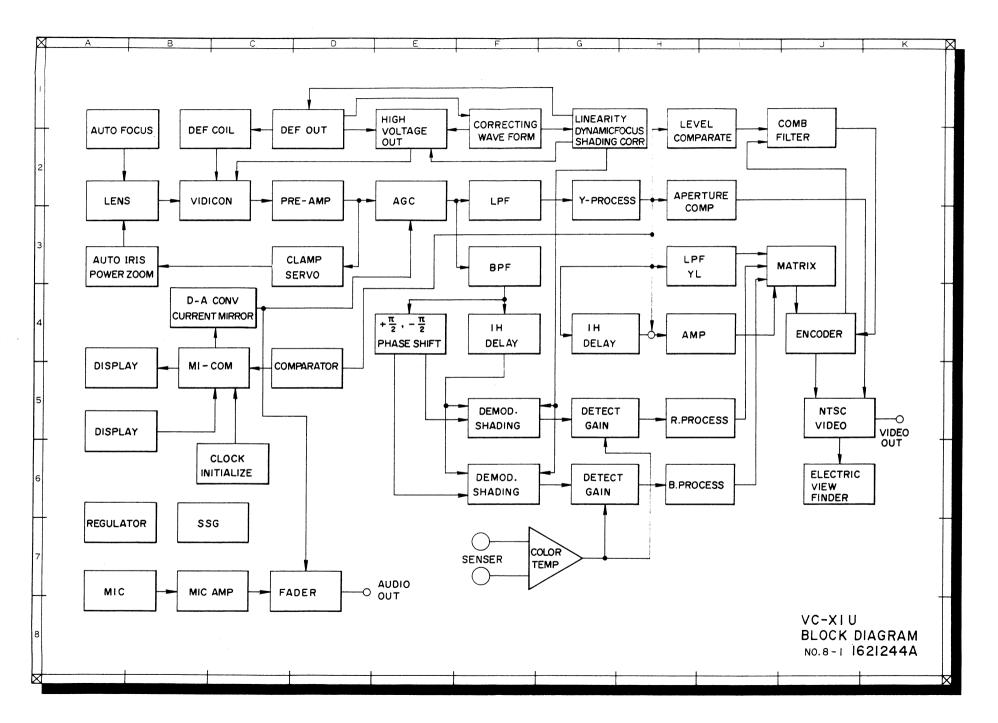


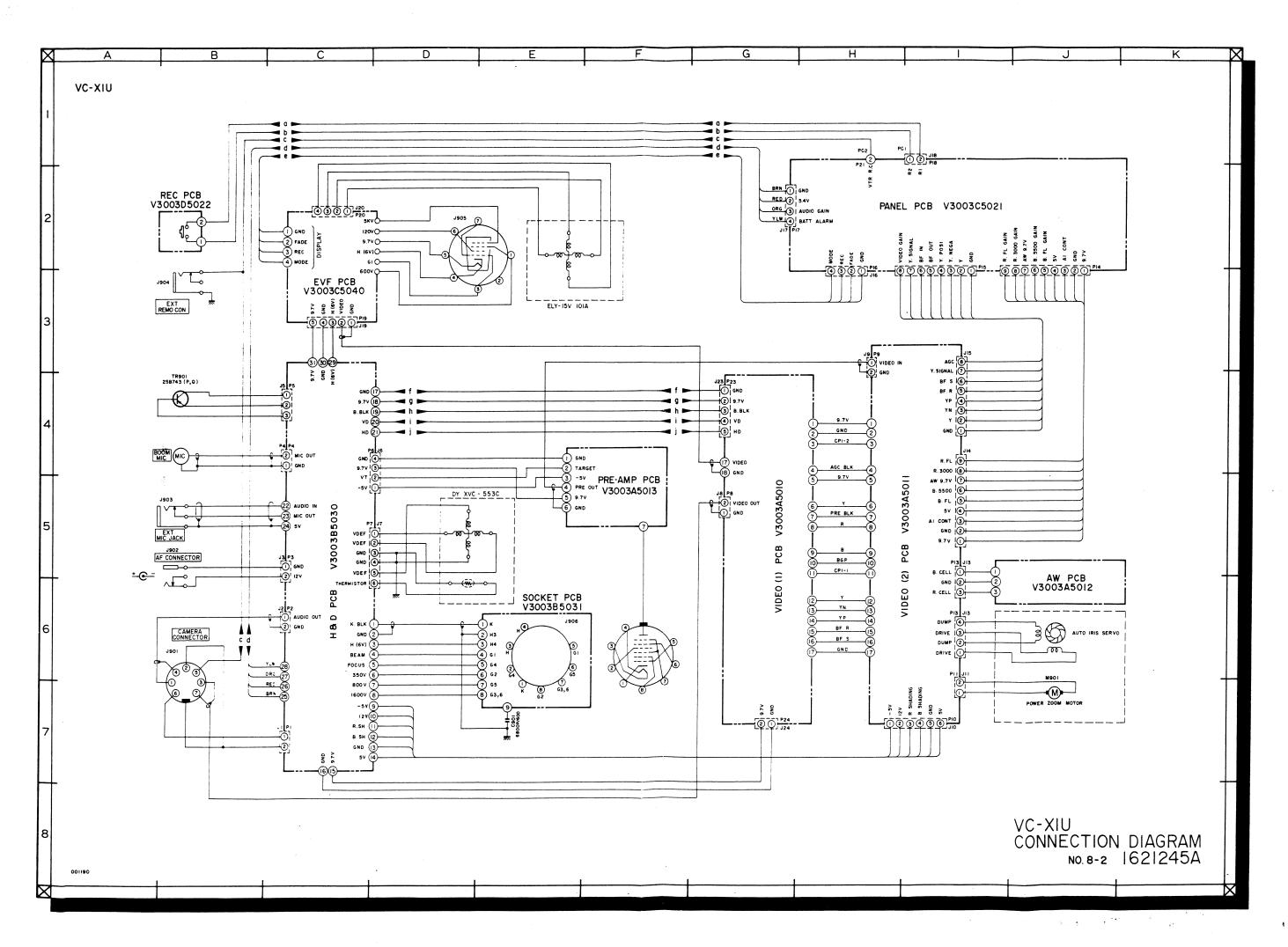
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